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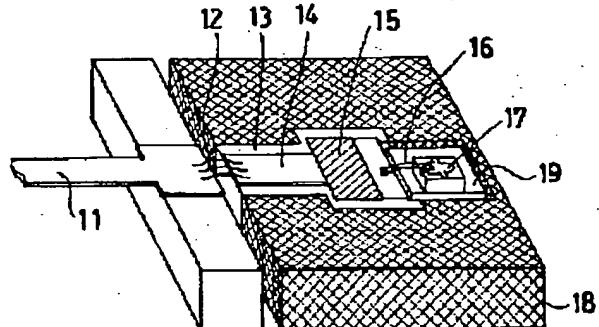
APPLICATION DATE : 18-10-91  
APPLICATION NUMBER : 03297969

APPLICANT : NEC CORP;

INVENTOR : TOMITA KEISAKU;

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TITLE : SEMICONDUCTOR LASER DEVICE



ABSTRACT : PURPOSE: To increase the input current for semiconductor laser used for a high-speed optical telecommunication system in order to realize a long-distance transmission.

CONSTITUTION: The characteristic impedance between an input terminal 11 and a strip line 14 is matched to the output impedance of a drive circuit (for example,  $50\Omega$ ), however, the impedance is set lower than the output impedance of the drive circuit when a thin-film resistor 14 and semiconductor laser 17 are viewed from the strip-line side (for example, when the input impedance of the semiconductor is  $5\Omega$ , the resistance value of the thin-film resistor 14 is set to  $20\Omega$ ).

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